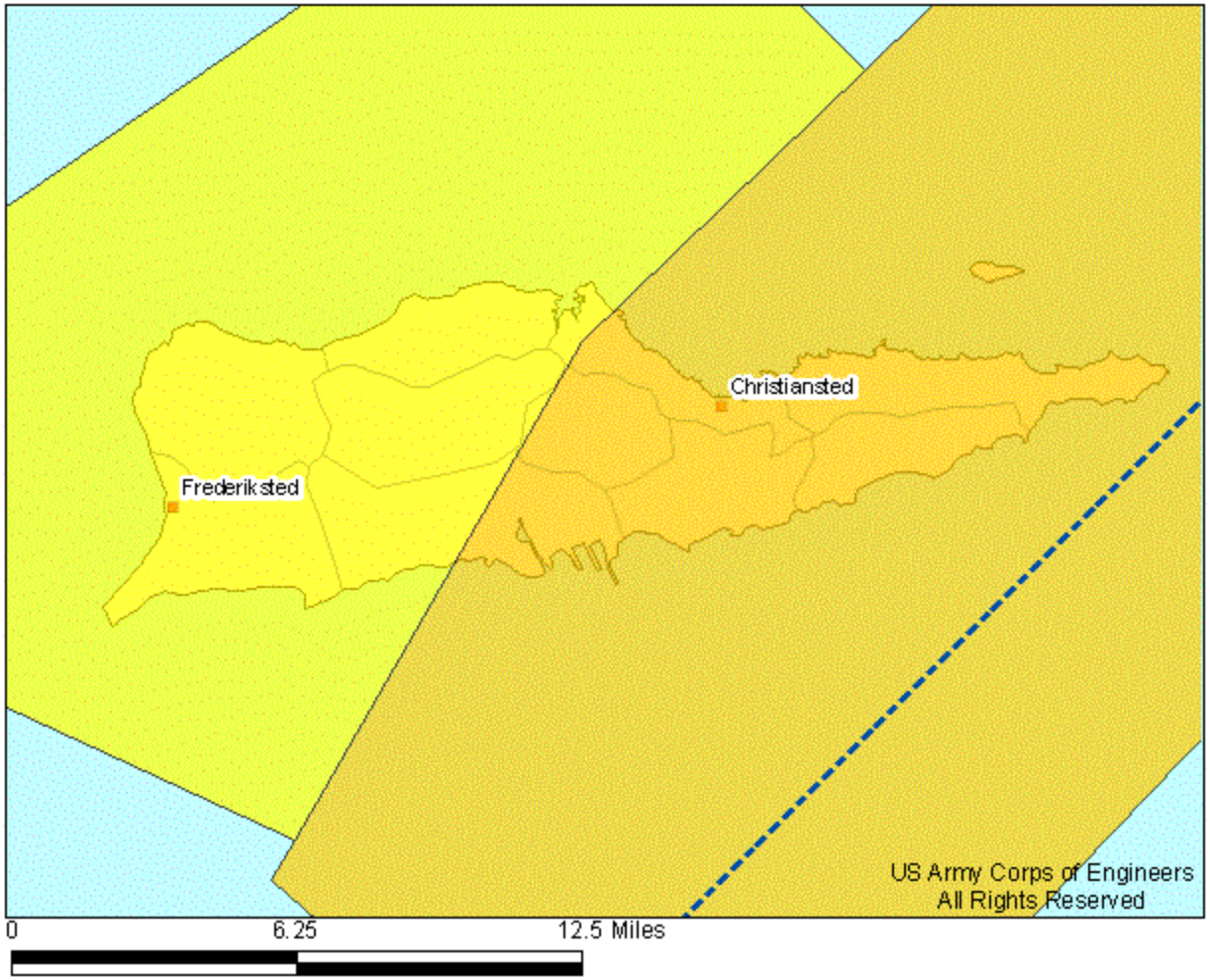
US Army Corps of Engineers

Hurricane Omar Projected Damage Areas

Landfall Expected In About 30 Hours

For Planning Purposes Only!



Post Landfall Projected Damage Areas

This model is based on a Category 2 storm making landfall on St. Croix, USVI.

Forecast Track

Projected Damage Areas

- CAT 0-type damage
- CAT 1-type damage
- CAT 2-type damage
- CAT 3-type damage
- CAT 4-type damage
- CAT 5-type damage

Information provided on this page displays a Category 2 storm making landfall on St. Croix, USVI. These projections are based on information from the NHC (1700 EDT 10/14/2008) forecast.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

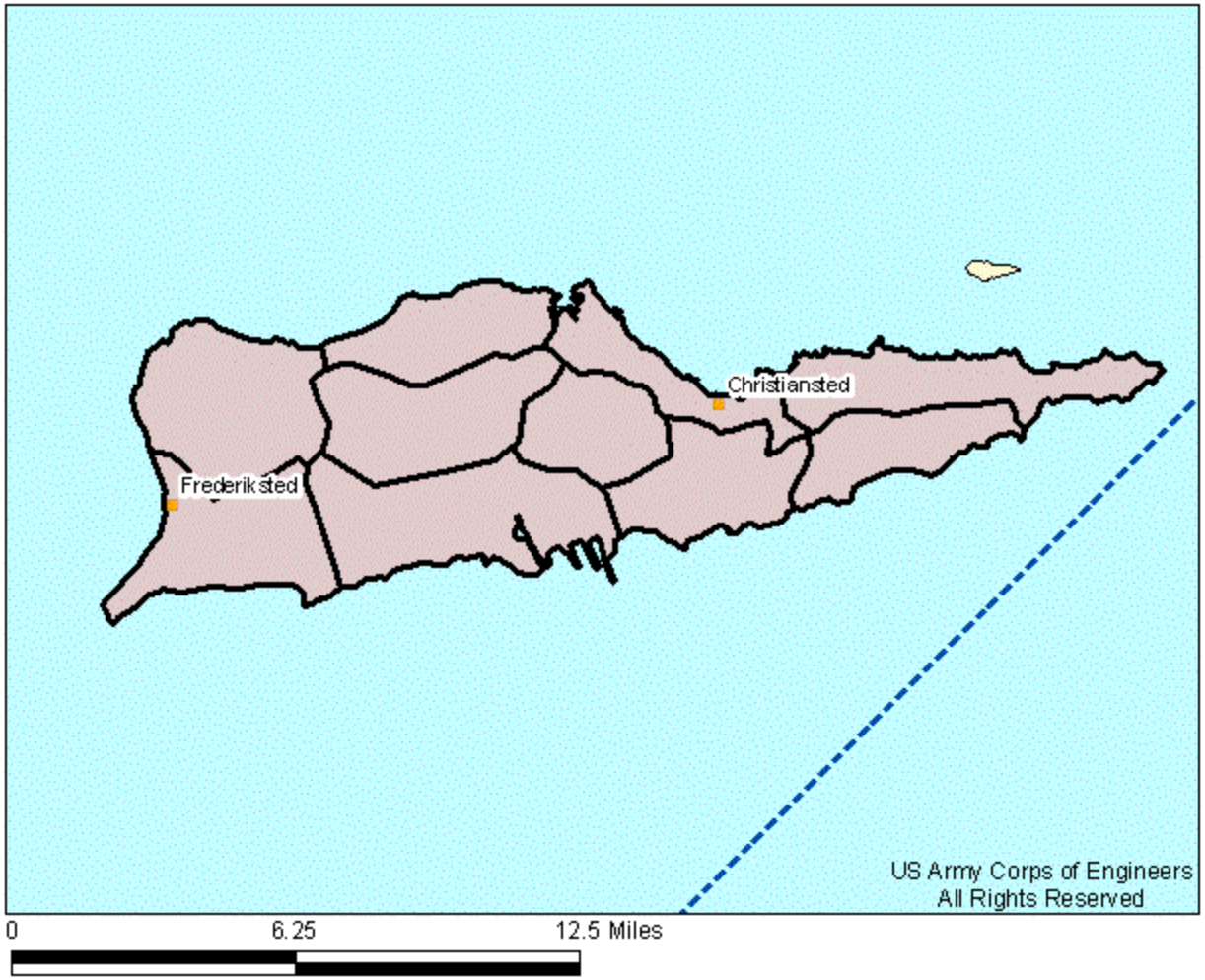
Hurricane Omar Projected Damage Areas	
Generated By: Siemsen, LRL 1800 EDT 10/14/2008	
Sources: HURREVAC LRL-DEBRIS	Page 1 of 16

US Army Corps of Engineers

Hurricane Omar Debris Model

Landfall Expected In About **30** Hours

For Planning Purposes Only!



Post Landfall Debris Model Results

US VIRGIN ISLANDS - 197,000 Yards

Model results per Geographic Unit on following page

This model is based on a Category 2 storm making landfall on St. Croix, USVI.

Forecast Track

Debris

- < 100,000 cubic yards
- 100,000 - 249,999 cubic yards
- 250,000 - 499,999 cubic yards
- 500,000 - 999,999 cubic yards
- >1,000,000 cubic yards

Information provided on this page displays a Category 2 storm making landfall on St. Croix, USVI. These projections are based on information from the NHC (1700 EDT 10/14/2008) forecast. The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds, but does not include volume that may be covered by private insurance. Debris volume may include storm surge generated debris.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Omar Debris Model	
Generated By: Siemsen, LRL 1800 EDT 10/14/2008	
Sources: HURREVAC LRL-DEBRIS	Page 2 of 16

US Army Corps of Engineers

Hurricane Omar Debris Model

Landfall Expected In About 30 Hours

For Planning Purposes Only!

Island	Yards per Island	Geographic Unit	Yards per Geographic Unit
ST CROIX		ANNA'S HOPE VILLAGE	18,000
		CENTRAL	10,000
		CHRISTIANSTED	56,000
		EAST END - NORTH	15,000
		EAST END - SOUTH	6,000
		NORTHCENTRAL	4,000
		NORTHWEST	6,000
		SION FARM	47,000
		SOUTHCENTRAL	18,000
		SOUTHWEST	17,000
ST CROIX	197,000		

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds, but does not include volume that may be covered by private insurance. Debris volume may include storm surge generated debris.

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or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

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Hurricane Omar Debris Model

Generated By:
Siemsen, LRL 1800 EDT 10/14/2008

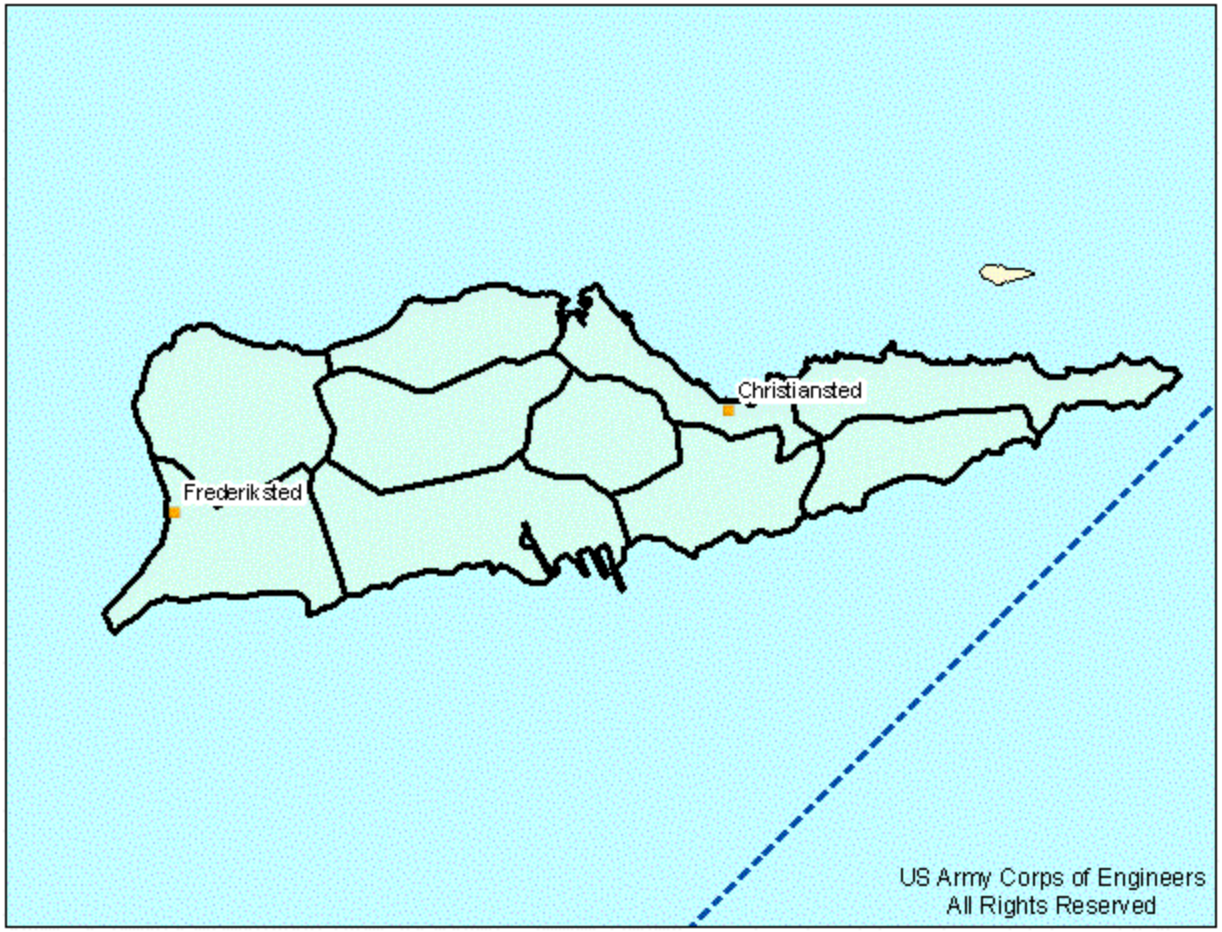
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Omar Commodities Model

Landfall Expected In About **30** Hours

For Planning Purposes Only!



0 6.25 12.5 Miles

Post Landfall Water Model Results

Day One / Day Two / Day Three
St Croix – 13/13/13 Truckloads

Assumes full POD operational and 80% power outage

Model results per Geographic Unit on following page

This model is based on a Category 2 storm making landfall on St. Croix, USVI.

Forecast Track

Commodities

- < 5 Trucks Each
- 5 - 10 Trucks Each
- 11 - 20 Trucks Each
- 21 - 40 Trucks Each
- > 40 Trucks Each

Information provided on this page displays a Category 2 storm making landfall on St. Croix, USVI. These projections are based on information from the NHC ***(1700 EDT 10/14/2008)*** forecast. The amount of commodities forecasted is based on Mission Guide Book requirements and SME input. The graphic represents single day needs with full distribution system in place and operating.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Omar Commodities Model	
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Sources: HURREVAC LRL-DEBRIS	Page 4 of 16

US Army Corps of Engineers

Hurricane Omar Commodities Model

Landfall Expected In About 30 Hours

For Planning Purposes Only!

Island	Truckloads per Island	Geographic Unit	Truckloads per Geographic Unit
ST CROIX		ANNA'S HOPE VILLAGE	1
		CENTRAL	1
		CHRISTIANSTED	2
		EAST END - NORTH	1
		EAST END - SOUTH	1
		NORTHCENTRAL	1
		NORTHWEST	1
		SION FARM	2
		SOUTHCENTRAL	1
		SOUTHWEST	2
ST CROIX	13		

The amount of commodities forecasted is based on Mission Guide Book requirements and SME input and the above table indicates suggested needs based on phased deployment of a commodities distribution system.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Source: US Army Corps of Engineers, All Rights Reserved

Hurricane Omar Commodities Model

Generated By:
Siemsen, LRL 1800 EDT 10/14/2008

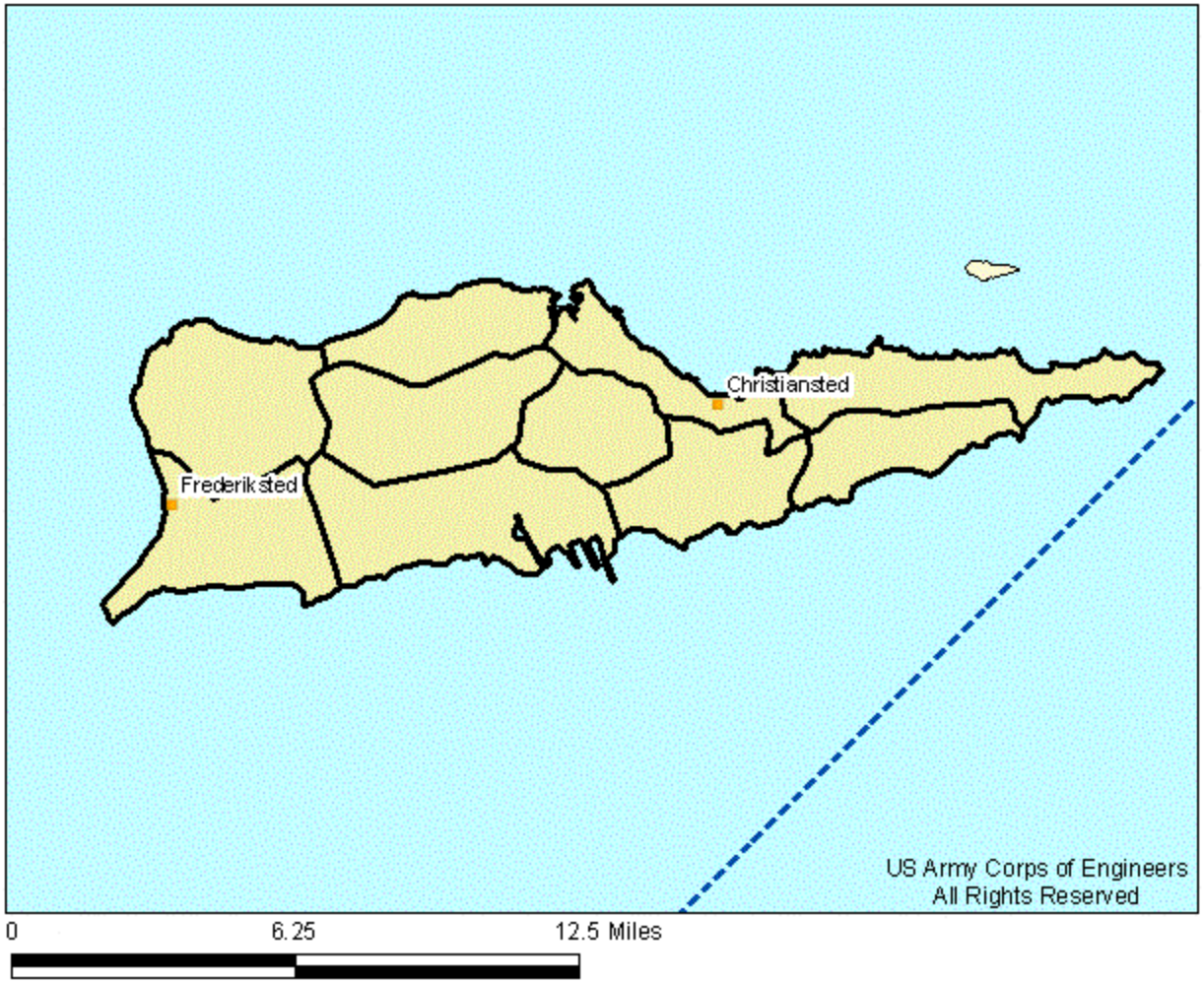
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Omar Temporary Roofing Model

Landfall Expected In About 30 Hours

For Planning Purposes Only!



Post Landfall Temporary Roofing Model Results

US VIRGIN ISLANDS - 1,000

Model results per Geographic Unit on following page

This model is based on a Category 2 storm making landfall on St. Croix, USVI.

Forecast Track

Temporary Roofing

- < 2,000 units
- 2,000 - 3,999 units
- 4,000 - 5,999 units
- 6,000 - 9,999 units
- > 10,000 units

Information provided on this page displays a Category 2 storm making landfall on St. Croix, USVI. These projections are based on information from the NHC (1700 EDT 10/14/2008) forecast. Temporary roofing is based on 3% in CAT 1 and 7% in CAT 2.

Details about this model may be obtained at http://www.englinkusace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Omar Roofing Model	
Generated By: Siemsen, LRL 1800 EDT 10/14/2008	
Sources: HURREVAC LRL-DEBRIS	Page 6 of 16

US Army Corps of Engineers

Hurricane Omar Temporary Roofing Model

Landfall Expected In About 30 Hours

For Planning Purposes Only!

Island	House Units per Island	Geographic Unit	House Units per Geographic Unit
ST CROIX		ANNA'S HOPE VILLAGE	< 100
		CENTRAL	< 100
		CHRISTIANSTED	300
		EAST END - NORTH	< 100
		EAST END - SOUTH	< 100
		NORTHCENTRAL	< 100
		NORTHWEST	< 100
		SION FARM	300
		SOUTHCENTRAL	200
		SOUTHWEST	200
ST CROIX	1,000		

Temporary roofing is based on 3% in CAT 1 and 7% in CAT 2.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

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Hurricane Omar Roofing Model

Generated By:
Siemsen, LRL 1800 EDT 10/14/2008

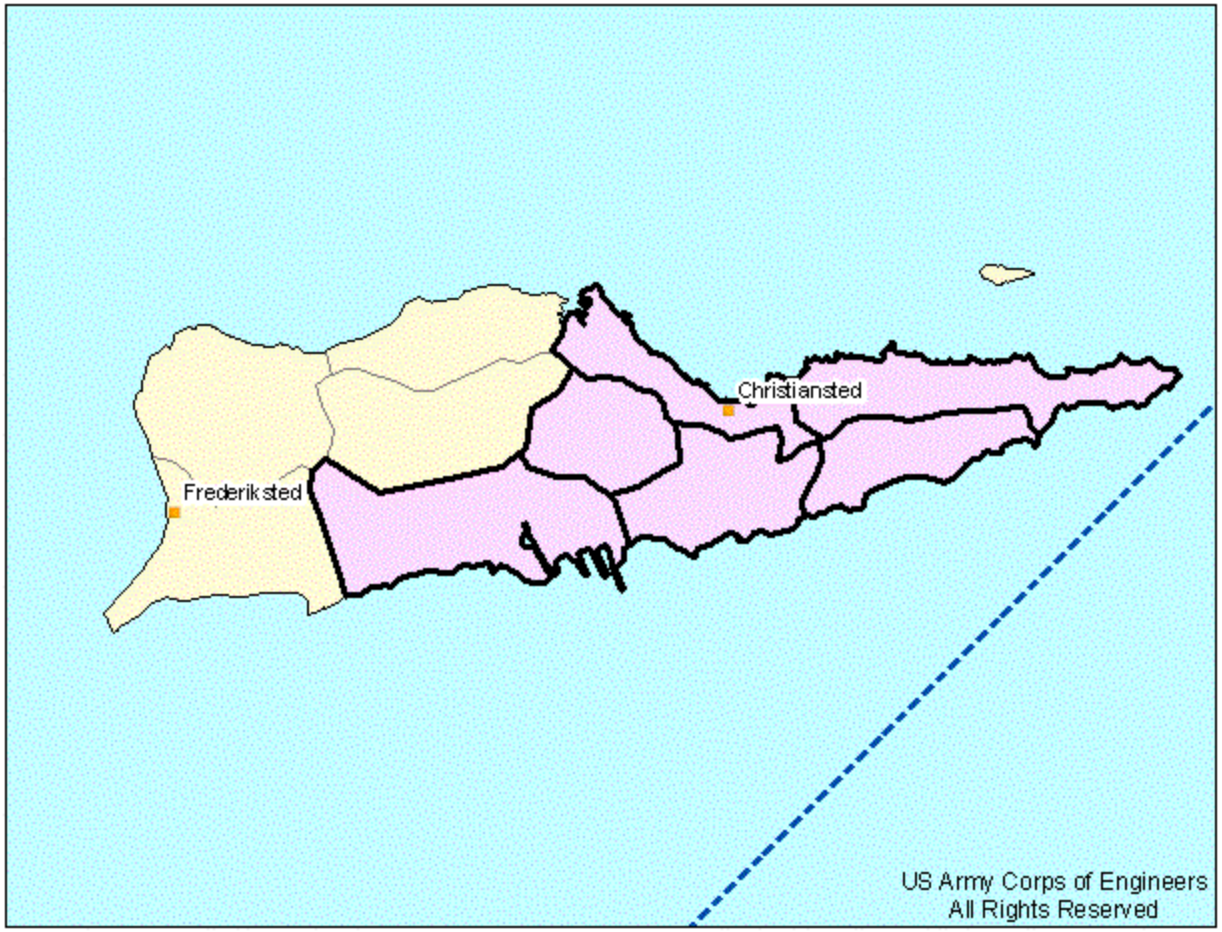
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Omar Temporary Housing Model

Landfall Expected In About 30 Hours

For Planning Purposes Only!



0 6.25 12.5 Miles

Post Landfall Temporary Housing Model Results

Less than 500 units

Model results per Geographic Unit on following page

This model is based on a Category 2 storm making landfall on St. Croix, USVI.

Forecast Track

Temporary Housing

- < 2,000 units
- 2,000 - 3,999 units
- 4,000 - 5,999 units
- 6,000 - 9,999 units
- > 10,000 units

Information provided on this page displays a Category 2 storm making landfall on St. Croix, USVI. These projections are based on information from the NHC (1700 EDT 10/14/2008) forecast. Temporary housing is based on 1% in CAT 2.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Omar Housing Model	
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Sources: HURREVAC LRL-DEBRIS	Page 8 of 16

US Army Corps of Engineers

Hurricane Omar Temporary Housing Model

Landfall Expected In About 30 Hours

For Planning Purposes Only!

Island	House Units per Island	Geographic Unit	House Units per Geographic Unit
ST CROIX		ANNA'S HOPE VILLAGE	< 100
		CHRISTIANSTED	< 100
		EAST END - NORTH	< 100
		EAST END - SOUTH	< 100
		SION FARM	< 100
		SOUTHCENTRAL	< 100
ST CROIX			

Temporary housing is based on 1% in CAT 2.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

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Hurricane Omar Housing Model

Generated By:
Siemsen, LRL 1800 EDT 10/14/2008

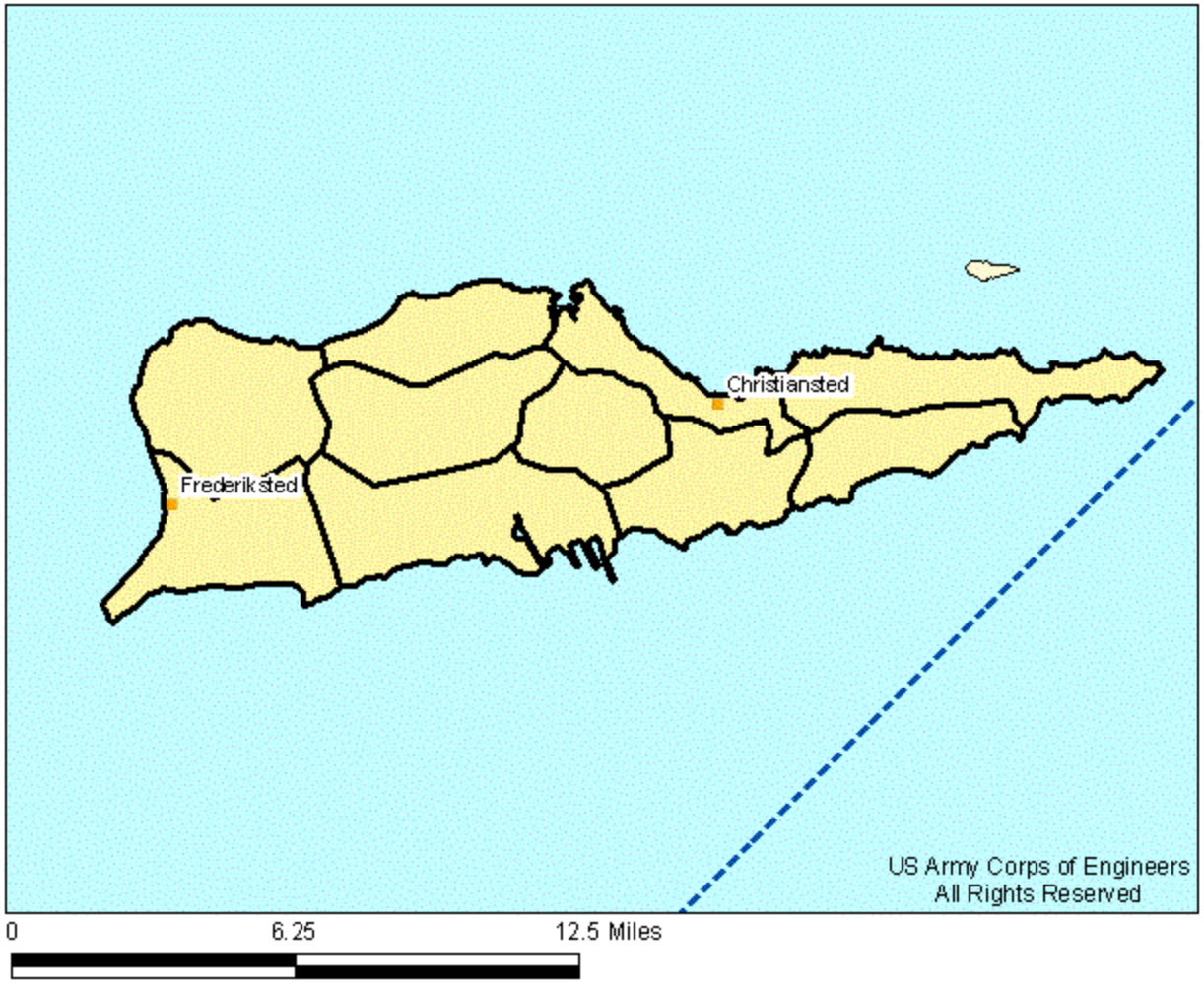
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Omar Population Model

Landfall Expected In About **30** Hours

For Planning Purposes Only!



Post Landfall Results – Resident Population Within Hurricane Force Winds

US VIRGIN ISLANDS - 62,000

Model results per Geographic Unit on following page

This model is based on a Category 2 storm making landfall on St. Croix, USVI.

Forecast Track

Population

- < 25,000 persons
- 25,000 - 99,999 persons
- 100,000 - 174,999 persons
- 175,000 - 249,999 persons
- > 250,000 persons

Information provided on this page displays a Category 2 storm making landfall on St. Croix, USVI. These projections are based on information from the NHC (1700 EDT 10/14/2008) forecast. The numbers of persons included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values adjusted to July 2007 values).

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Omar Population Model	
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Sources: HURREVAC LRL-DEBRIS	Page 10 of 16

US Army Corps of Engineers

Hurricane Omar Population Model

Landfall Expected In About 30 Hours

For Planning Purposes Only!

Island	Population per Island	Geographic Unit	Population per Geographic Unit
ST CROIX		ANNA'S HOPE VILLAGE	4,000
		CENTRAL	6,000
		CHRISTIANSTED	12,000
		EAST END - NORTH	3,000
		EAST END - SOUTH	2,000
		NORTHCENTRAL	3,000
		NORTHWEST	4,000
		SION FARM	10,000
		SOUTHCENTRAL	7,000
		SOUTHWEST	11,000
ST CROIX	62,000		

The number of persons estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2007 values.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

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Hurricane Omar Population Model

Generated By:
Siemsen, LRL 1800 EDT 10/14/2008

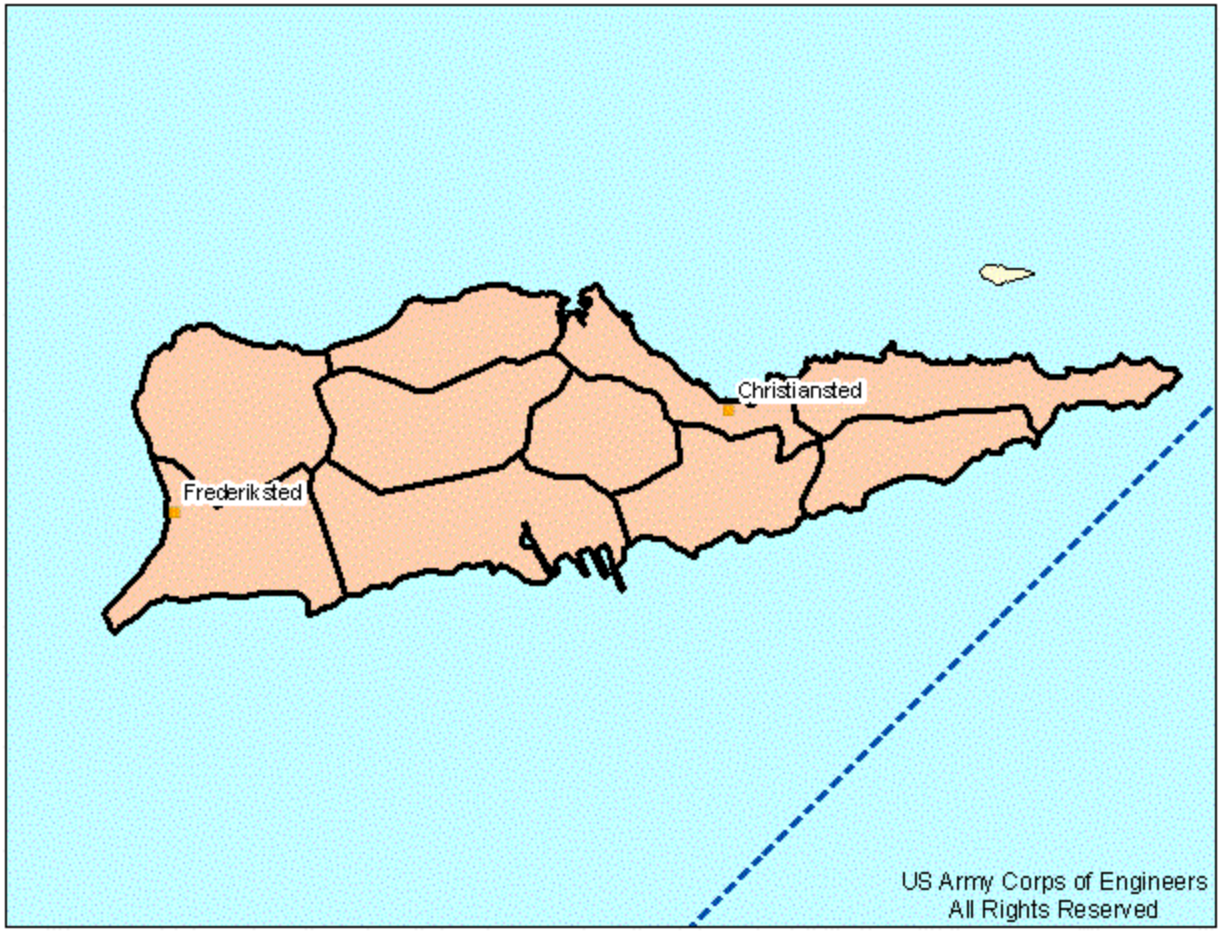
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Omar Households Model

Landfall Expected In About **30** Hours

For Planning Purposes Only!



0 6.25 12.5 Miles

Post Landfall Results – Resident Households Within Hurricane Force Winds

US VIRGIN ISLANDS - 22,000

Model results per Geographic Unit on following page

This model is based on a Category 2 storm making landfall on St. Croix, USVI.

Forecast Track

Households

- < 7,500 households
- 7,500 - 14,999 households
- 15,000 - 24,999 households
- 25,000 - 49,999 households
- > 50000 households

Information provided on this page displays a Category 2 storm making landfall on St. Croix, USVI. These projections are based on information from the NHC (1700 EDT 10/14/2008) forecast. The numbers of households included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values adjusted to July 2007 values).

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Hurricane Omar Households Model	
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Sources: HURREVAC LRL-DEBRIS	Page 12 of 16

US Army Corps of Engineers

Hurricane Omar Households Model

Landfall Expected In About 30 Hours

For Planning Purposes Only!

Island	Households per Island	Geographic Unit	Households per Geographic Unit
ST CROIX		ANNA'S HOPE VILLAGE	2,000
		CENTRAL	2,000
		CHRISTIANSTED	5,000
		EAST END - NORTH	< 1,000
		EAST END - SOUTH	< 1,000
		NORTHCENTRAL	< 1,000
		NORTHWEST	2,000
		SION FARM	4,000
		SOUTHCENTRAL	3,000
		SOUTHWEST	4,000
ST CROIX	22,000		

The number of households estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2007 values.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

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Hurricane Omar Households Model

Generated By:
Siemsen, LRL 1800 EDT 10/14/2008

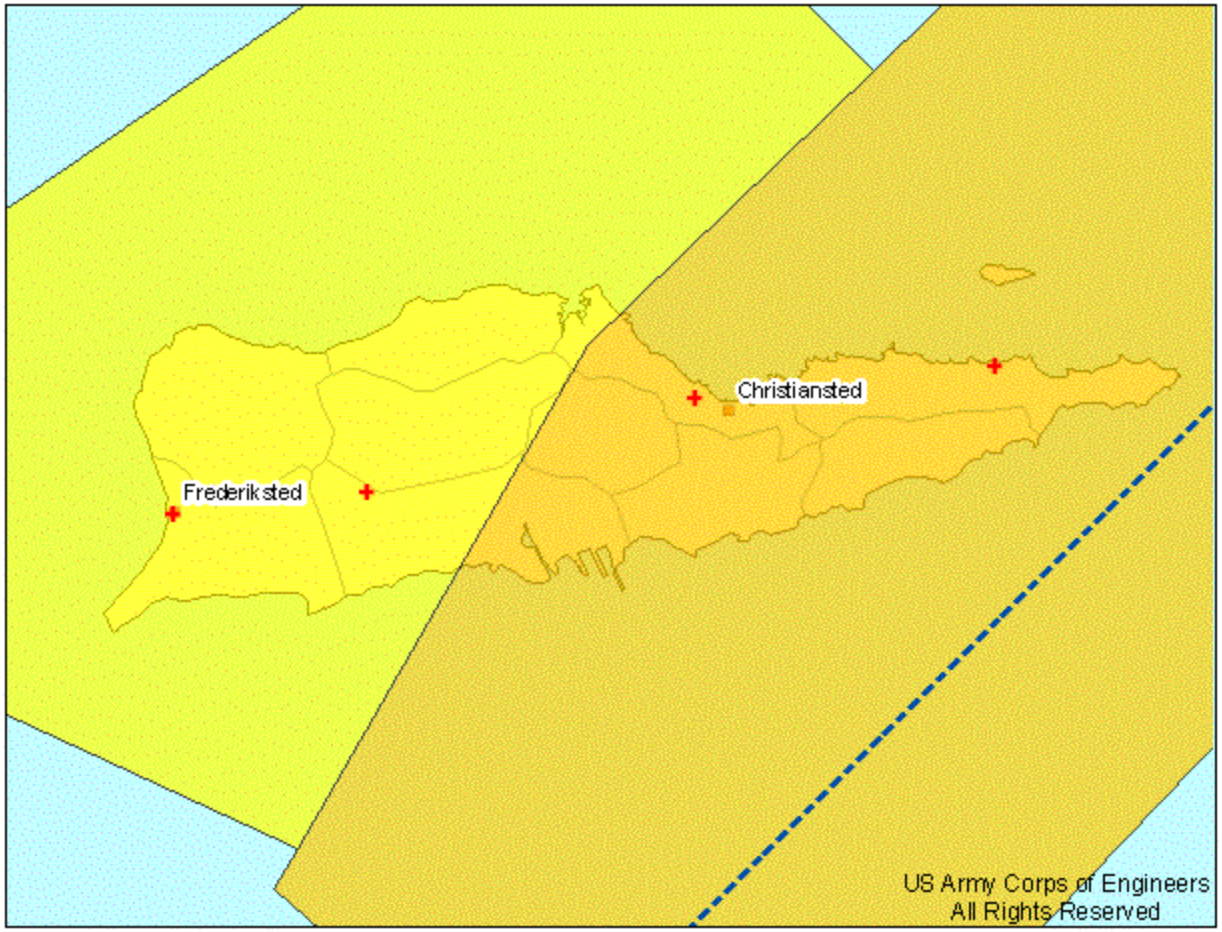
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Omar Fire Stations

Landfall Expected In About **30** Hours

For Planning Purposes Only!



0 6.25 12.5 Miles

Most Probable Landfall Fire Stations Inside Hurricane Force Winds

Virgin Island - 4

Model results per Geographic Unit on following page

This model is based on a Category 2 storm making landfall on St. Croix, USVI.

+ Fire Stations

Forecast Track

Information provided on this page displays a Category 2 storm making landfall on St. Croix, USVI. These projections are based on information from the NHC (1700 EDT 10/14/2008) forecast.

The number of fire stations included in this output are those that would be included within estimated hurricane force winds (data source: Homeland Security Infrastructure Program).

Details about this model may be obtained at http://www.englinkusace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

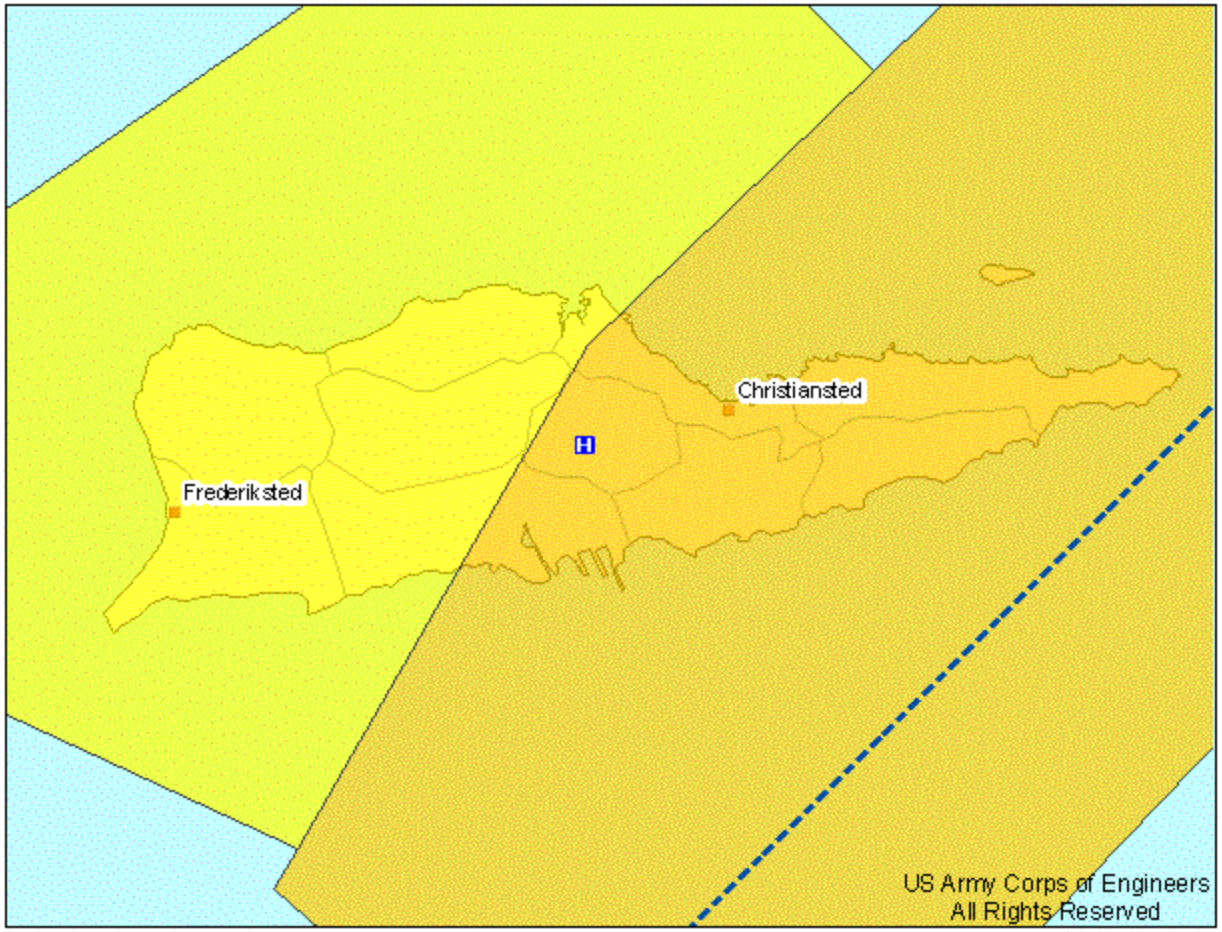
Hurricane Omar Fire Stations	
Generated By: Siemsen, LRL 1800 EDT 10/14/2008	
Sources: HURREVAC LRL-DEBRIS	Page 14 of 16

US Army Corps of Engineers

Hurricane Omar Hospitals

Landfall Expected In About 30 Hours

For Planning Purposes Only!



0 6.25 12.5 Miles

Most Probable Landfall Hospitals Inside Hurricane Force Winds

Virgin Island - 1

Model results per Geographic Unit on following page

This model is based on a Category 2 storm making landfall on St. Croix, USVI.

Hospitals

Forecast Track

Information provided on this page displays a Category 2 storm making landfall on St. Croix, USVI. These projections are based on information from the NHC (1700 EDT 10/14/2008) forecast.

The number of hospitals included in this output are those that would be included within estimated hurricane force winds (data source: Homeland Security Infrastructure Program).

Details about this model may be obtained at http://www.englinkusace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Omar Hospitals	
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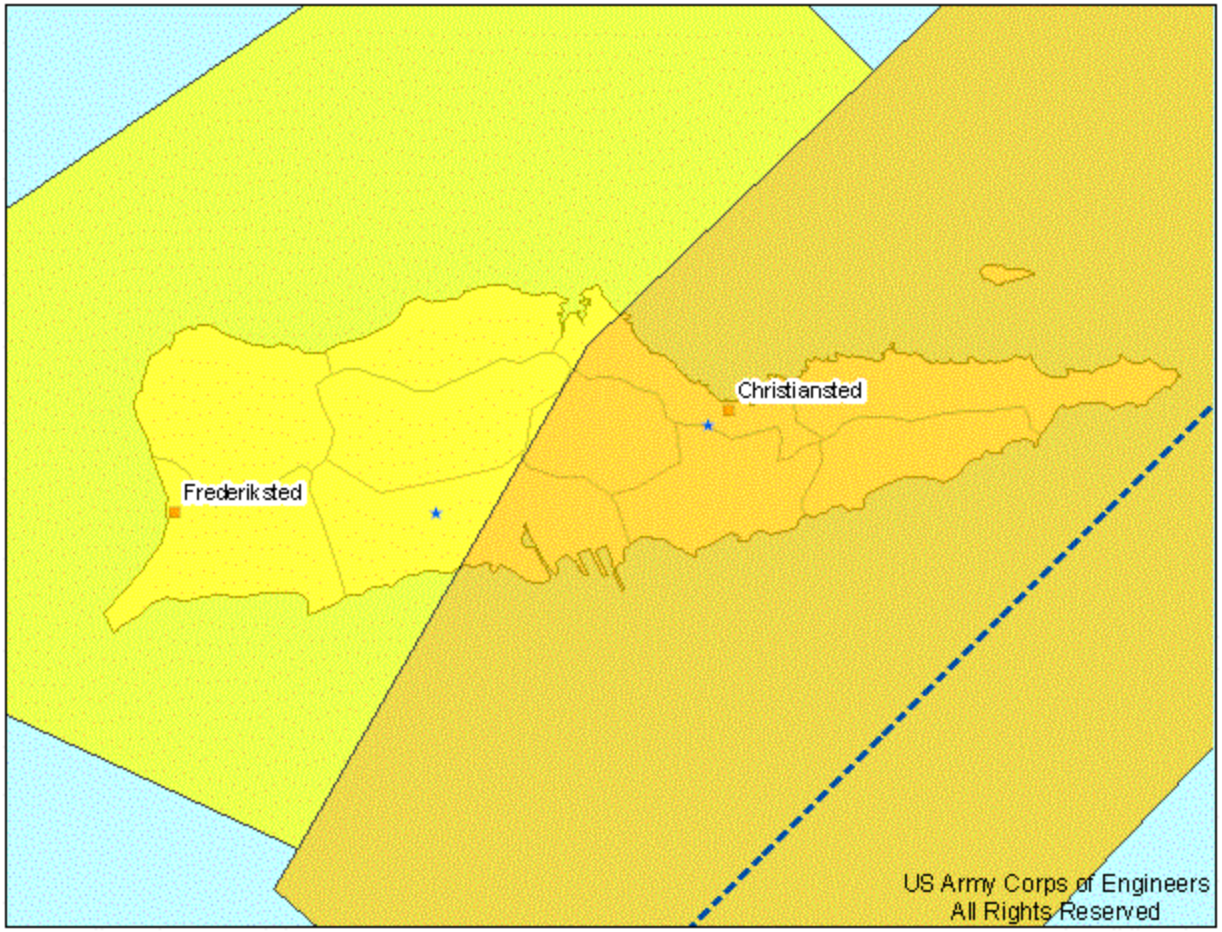
Sources: HURREVAC LRL-DEBRIS	Page 15 of 16

US Army Corps of Engineers

Hurricane Omar Law Enforcement

Landfall Expected In About **30** Hours

For Planning Purposes Only!



0 6.25 12.5 Miles

Most Probable Landfall Law Enforcement Inside Hurricane Force Winds

Virgin Island - 2

Model results per Geographic Unit on following page

This model is based on a Category 2 storm making landfall on St. Croix, USVI.

★ Law Enforcement

Forecast Track

Information provided on this page displays a Category 2 storm making landfall on St. Croix, USVI. These projections are based on information from the NHC (1700 EDT 10/14/2008) forecast.

The number of law enforcement included in this output are those that would be included within estimated hurricane force winds (data source: Homeland Security Infrastructure Program).

Details about this model may be obtained at http://www.englinkusace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Omar Law Enforcement	
Generated By: Siemsen, LRL 1800 EDT 10/14/2008	
Sources: HURREVAC LRL-DEBRIS	Page 16 of 16